PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

BERRY, Alan et al

From the INTERNATIONAL BUREAU

l lo:

United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
24 August 1998 (24.08.98)

International application No.
PCT/US98/00800

International filing date (day/month/year)
14 January 1998 (14.01.98)

Applicant

in its capacity as elected Office

Applicant's or agent's file reference
3161-18-PCT

Priority date (day/month/year)
14 January 1997 (14.01.97)

•	The designated Office is hereby notified of its election made: X in the demand filed with the International Preliminary Examining Authority on:
	30 July 1998 (30.07.98)
	30 3diy 1338 (30.07.38)
	in a notice effecting later election filed with the International Bureau on:
	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under
	Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Jocelyne Rey-Millet

Telephone No.: (41-22) 338.83.38

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Facsimile No.: (41-22) 740.14.35

INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/00800

A. CLASSIFICATION OF SUBJECT MATTER IPC(6) :C12P 19/26; C12N 1/00, 1/21								
US CL : 435/84; 252.3, 252.33, 254.11								
According to International Patent Classification (IPC) or to both national classification and IPC								
	B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)							
0.5	435/84; 252.3, 252.33, 254.11, 320.1, 193; 536/2	3.2						
Documentat	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Extra Sheet.								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.					
x	McKNIGHT et al. Molecular clo	ning, cDNA Sequence, and	22, 27-29, 34, 36-					
${\mathbf{Y}}$	Bacterial Expression of Human Gl	utamine: Fructose-6-phosphate	38,					
1	Amidotransferase. Journal of Biologi 1992, Vol. 267, No. 30, pages 25206	cal Chemistry. 15 December	1-4, 14-16, 18-19,					
1		23212, especially ligure 3.	21					
X	FERNANDEZ-HERRERO et al. glmS of Thermus thermophilus 122,27-29 HB8: an essential gene for cell-wall synthesis identified immediately upstream of the S-layer gene. Molecular Microbiology. 1995, Vol. 17, No. 1, pages 1-12, especially figure 7.							
x	DUTKA-MALEN et al. Molecular of the glucosamine synthetase gene from 1988, Vol 70, pages 287-290, entire of	Escherchia coli. Biochimie.	22, 27-29					
X Further documents are listed in the continuation of Box C. See patent family annex.								
	scial categories of cited documents: cument defining the general state of the art which is not considered	"T" later document published after the inte- date and not in conflict with the appli	cation but cited to understand					
to l	be of particular relevance	the principle or theory underlying the	invention					
"L" document published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone						
special reason (as specified) Os document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such being obvious to a person skilled in the	step when the document is documents, such combination					
"P" doc	nument published prior to the international filing date but later than priority date claimed	*&* document member of the same patent						
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report					
29 MARC	H 1998	1 1 MAY 1998	/ 0					
Commission Box PCT	nailing address of the ISA/US ter of Patents and Trademarks	GABRIELE E. BUGAISKY						
	, D.C. 20231 o. (703) 305-3230	Telephone No. (703) 308 0106	·					

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US98/00800

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Cuwgoi y	omation of document, what indication, where appropriate, of the relevant passages	Relevant to claim No.
ζ	MARIE et al. Rhizobium leguminosarum has two glucosamine synthases, GlmS and NodM, required for nodulation and development of nitrogen-fixing nodules. Molecular Microbiology. 1992, Vol. 6, No. 7, pages 843-851, entire document.	22, 23, 27-29
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INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/00800

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	B. FIELDS SEARCHED Electronic data bases consulted (Name of data base and where practicable terms used):						
	APS, STN-CAS files medline, embase search terms: glucosamine, glutamine-fructose-6 phosphate transaminase, recombinant proteins, molecular cloning, nag?, glm?, nod?						